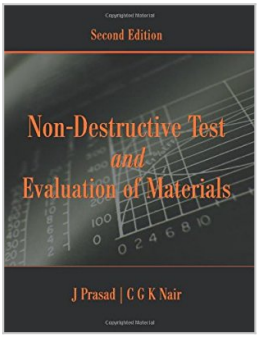

Non-Destructive Test and Evaluation of Materials

By Prof J Prasad, Dr. C G K Nair

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"A Comprehensive Guide to Non-Destructive Test and Evaluation (NDE) Technology and State-of-the-Art NDE Methods Non-Destructive Test and Evaluation of Materials offers every engineer, technical professional, teacher and student engaged in NDE activities, an authoritative guide to the most commonly used and emerging methods of NDE. It comprehensively prepares its readers for professional NDE Level I, II and III tests. The book elaborately provides guidelines on developing specific NDE techniques and criteria for acceptance of materials for various applications as well as NDE requirements of design, manufacturing and maintenance agencies. Containing over 200 illustrations, this essential reference discusses: • Complete overview of NDE technology and its capabilities • Principles and applications of different NDE methods • Industrial applications of NDE • Modern trends in various disciplines of NDE Highlights of the Second Edition: • A new chapter on Fibre-reinforced Composites has been added • Two new topics—Ethics and Morality in NDE and NDE in Mining Industry—have been included. Inside This Vital Reference: • Radiography • Ultrasonics • Liquid Penetrant Test • Magnetic Particle Test • Eddy Current Test • Thermal Infrared Test • Acoustic Emission • Leak Testing • Defect Detection and NDE • Industrial Applications of NDE • Modern Trends in NDE • Fibre-reinforced Composites"

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Editorial Review

About the Author
Prof Jayamangal Prasad is an authority in the field of Non Destructive Testing and Evaluation. He has over the past three and a half decades made significant life time contributions in the development of NDE technology. Prof. Prasad obtained his Masters' degree from the University of Patna and University of Sheffield (UK). He has been actively associated with training, development of techniques and test facilities, documentation, R&D and archiving aspects of NDE technology, as the head of Centre of Excellence in NDT at Hindustan Aeronautics Ltd. and as the head of NDT projects at Aeronautical Development Agency (Light Combat Aircraft Project). He has trained at NDT Centre over thousand NDT engineers/technicians. After retirement from Aeronautical Development Agency, he has served as Specialist Consultant to Government and private organizations and academic institutions in areas related to NDE of metallic and composite materials. He is associated with a number of professional associations and is the Founder-Chairman of Bangalore Chapter of NDT Society of India. He is a fellow of Ultrasonic Society of India, member of NDT Society of India, Acoustic Emission Group of India and professional member of ISAMPY, etc. Prof. Prasad has published and presented more than 60 research papers at National and International Seminars, and authored seven books and manuals, specifically related to various disciplines of NDE, including three volumes on 'Treatise on NDT'. He has also chaired a technical session of the 11th World Conference on NDT at Las Vegas, USA. He has coordinated and guided development of a multi-axis, robot based C-Scan System for test and evaluation of large fiber-reinforced composite components. He has been associated with the Department of Science and Technology in NDT Laboratories' accreditation programme and Indian Bureau of Standards (NDT Sub-Committee), and has been visiting Professor/Consultant in the field of NDE. He has widely traveled various countries in Asia, Europe and USA for discussion, training and technical presentations in various disciplines of NDE. Dr C G Krishnadas Nair is a graduate in metallurgical engineering from IIT Chennai and Ph.D from the University of Sask, Canada. After a brief academic career he joined Hindustan Aeronautics Ltd., and served in many responsible positions and retired as Chairman and Managing Director of the company. After retirement from HAL, he served as Vice Chancellor of Mahaveer Academy of Technology & Science (MATS) University. Currently, he is an AICTE-INAE Distinguished visiting professor and IIT Chennai and Principal Advisor to Jain Group of Educational Institutions. He is associated with a number of Engineering Professional Associations and the Founder President of the Society of Indian Aerospace Technologies & Industries (1995-1997). He is a fellow of the Indian National Academy of Engineers, Institution of Engineers India, Aeronautical Society of India, Indian Institute of Metals, NDT Society of India, and Indian Society for Advancement of Materials and Process Engineering. He is a board member of many private and public sector industries and was member of many scientific advisory committees. Dr Nair set up a Centre of Excellence in NDT at HAL along with his then colleague Mr Jayamangal Prasad. The Centre has trained over a thousand NDT Engineers/technicians and developed a large number of NDT techniques for aerospace structures and components. Dr Nair was Chairman, Technical Committee for the International World Conference on NDT held in India in December 1996. He has published 160 scientific and technical papers in the field of materials testing including NDT and has authored 20 books in the field of aerospace materials, quality assurance, engineering and management. Dr Nair is a recipient of several awards which include Padma Shri, National Aeronautical Prize, Birla Gold Medal, National Metallurgist Award, Vasvik Research Award, Shri Om Prakash Bhasin Award for Space & Aerospace, Indira Gandhi Priyadarshini Puraskaram, SCOPE Award and Gold Cup for excellence in Public Sector Management, and Engineers' Life Time Contribution award from Indian National Academy of Engineers.

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